An Overview of the FAA Traffic Flow Management System

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Traffic Management System

Mission:

 To balance air traffic demand with system capacity to ensure the maximum efficient use of our National Airspace System



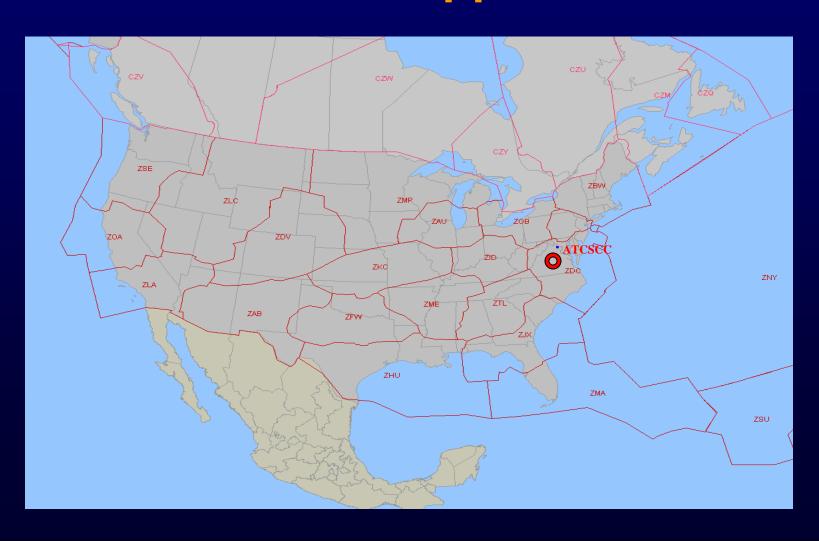
Air Traffic Control System Command Center

Purpose:

 To monitor and manage the flow of air traffic throughout the nation in order to produce a safe and orderly flow of traffic while minimizing delays



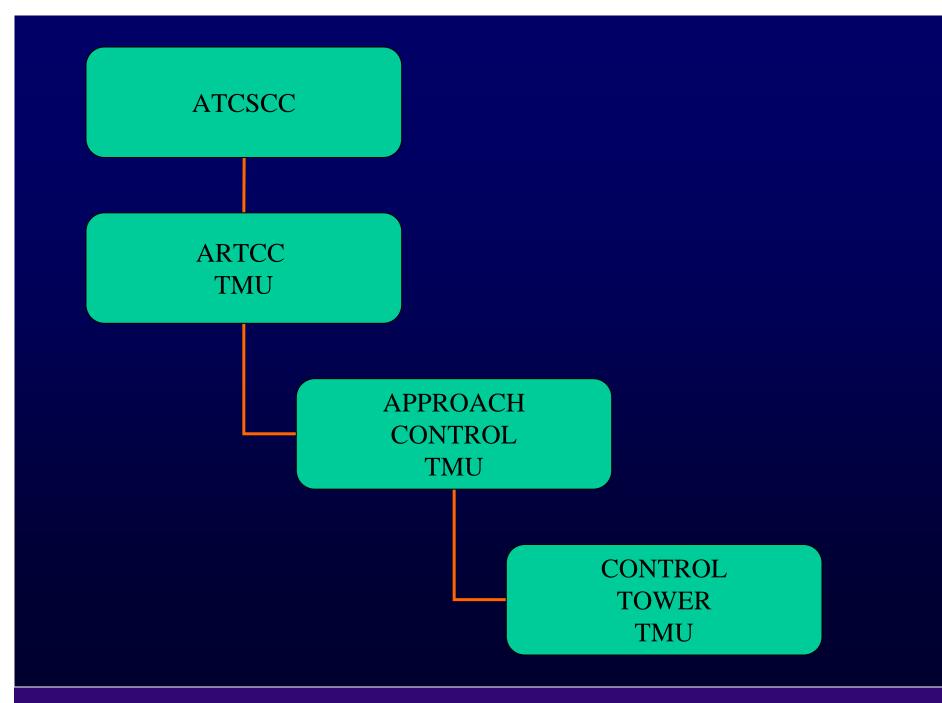
ATFM Hierarchy ATCSCC - Center – Approach – Tower



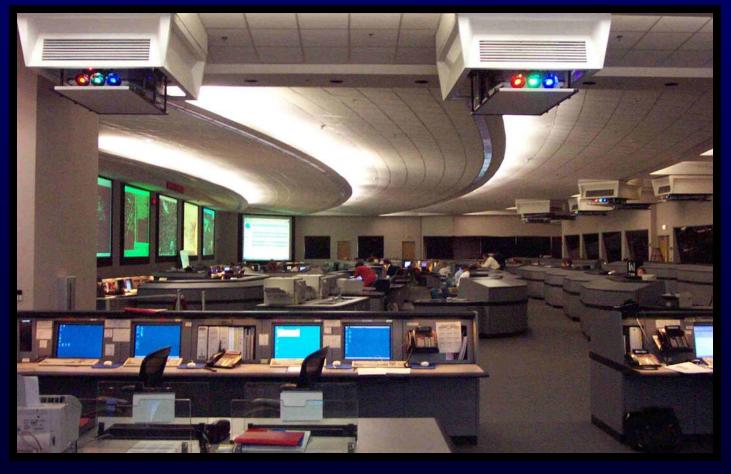
Air Traffic Flow Chart

ATCSCC ARTCCs TRACON TRACON Tower Tower **ARTCC** controls aircraft in the specific TRACON TRACON airspace. ARTCC controls aircraft in controls aircraft in airspace is further Arrival tower the terminal the terminal divided into sectors. (1) gives clearance to airspace: airspace: The control of aircraft land (1) 5 to 40 miles Departure tower (1) 5 to 40 miles is handed from one (2) controls aircraft from the airport (1) gives departure from the airport sector to another, from on the final approach (2) and an altitude clearance (2) or until an one ARTCC to another to the airport less than 10,000 ft (2) controls aircraft altitude of above when a boundary is (3) controls aircraft on the ground 10,000 ft crossed. on the ground (3) controls aircraft in the air within 5 miles

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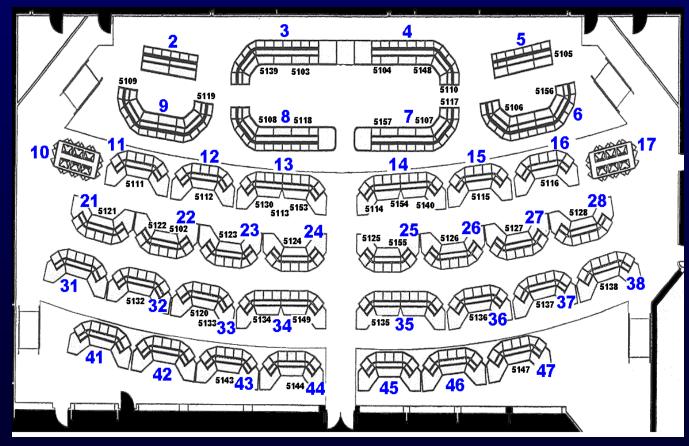


ATCSCC





ATCSCC Operational Floor





Collaborative Decision Making (CDM)





An operational philosophy and associated technologies that enable the FAA and aviation industry to respond collaboratively to real-time operational constraints in the National Airspace System.



CDM Structure

Sponsored by Air Transport Association (ATA) to provide Industry input to the FAA

- CDM Stakeholder Group (CSG)
 - Participants: ATA, NBAA, RAA, FAA
 - Purpose: provide recommendations to the FAA on CDM priorities and activities

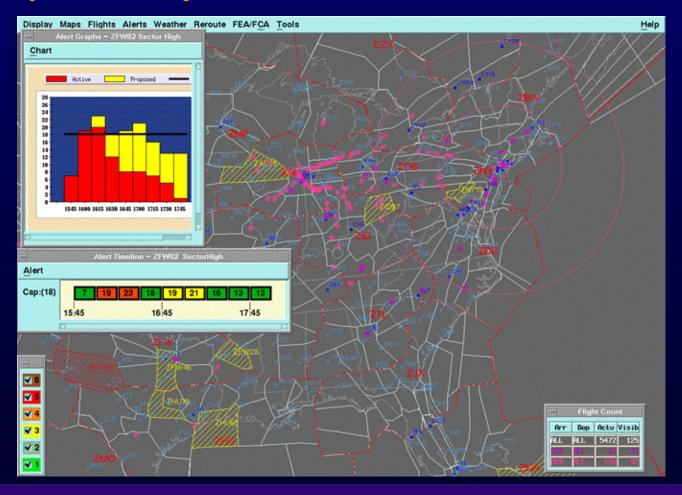


CDM Structure

- Work Groups/Sub-Teams
 - Report to and receive tasking from FAA and Industry Leads
 - Established to complete specific assigned tasking
 - Provide recommendations for technology, communication tools, etc.

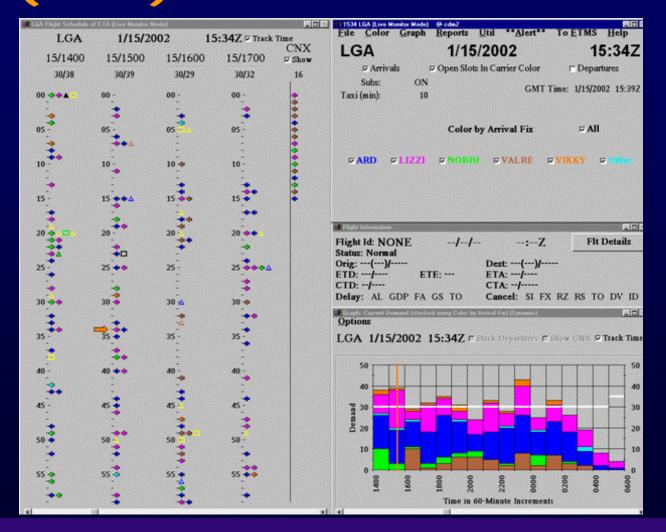


Enhanced Traffic Management System (ETMS)

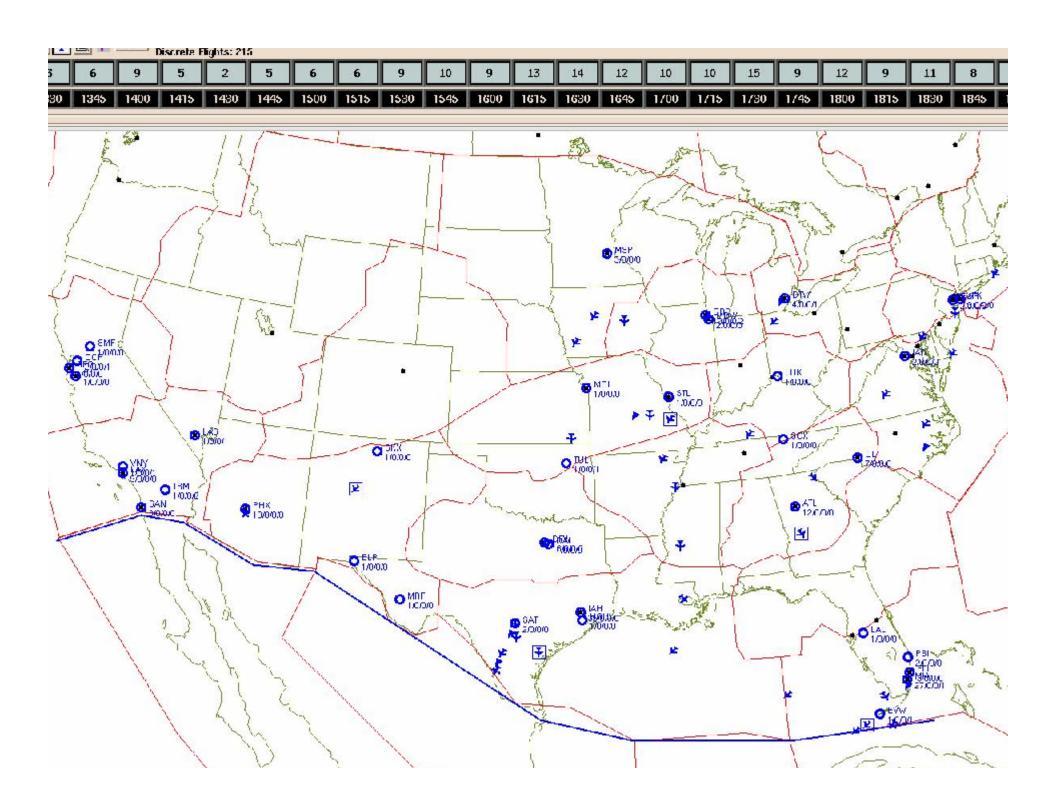




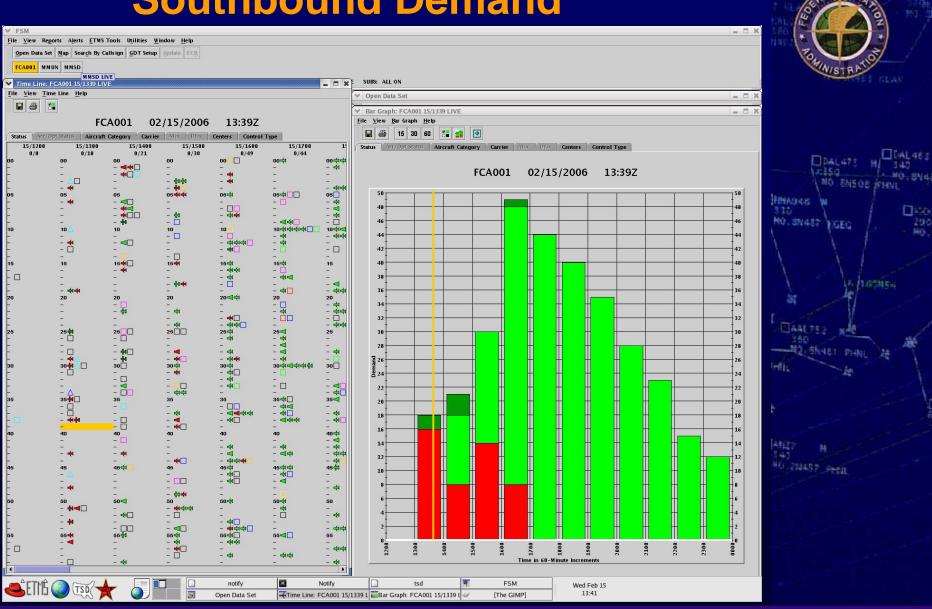
Flight Schedule Monitor (FSM)



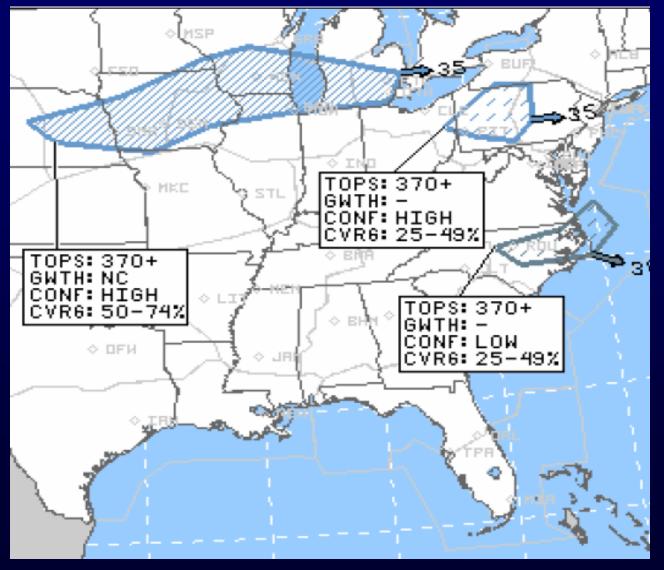




Southbound Demand

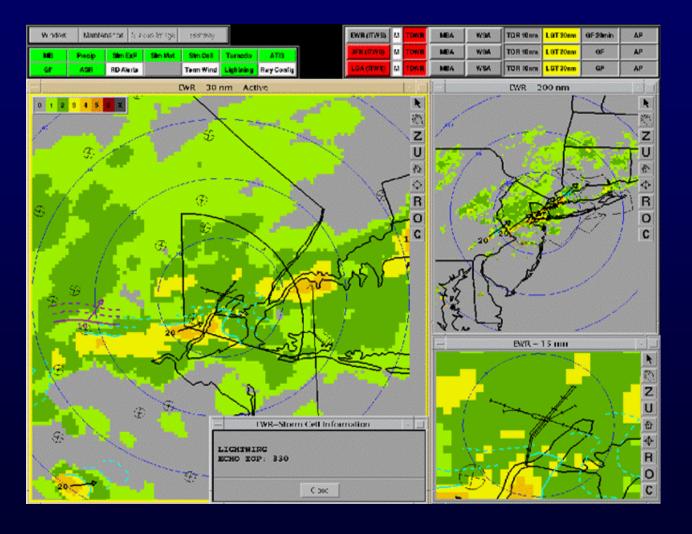


Weather Products: CCFP





Weather Products: ITWS









Playbook Table Of Contents

National PlayBook Menu □ PlayBook Change for Jul 7, 2005

☐ Airports

ATL ERLIN-RMG ATL HONIE-LGC

BOS ORW-SCUPP CVG CINCE 1 CVG EAST

CVG SWEED 2 CVG TARNE

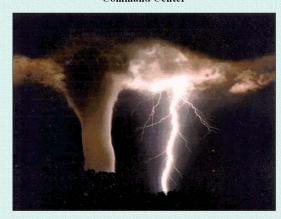
DFW BYP 2 DFW EAST 2

DFW UKW

DTW CETUS DTW EAST

IAD MULRR 3

Air Traffic Control System **Command Center**



National Severe Weather

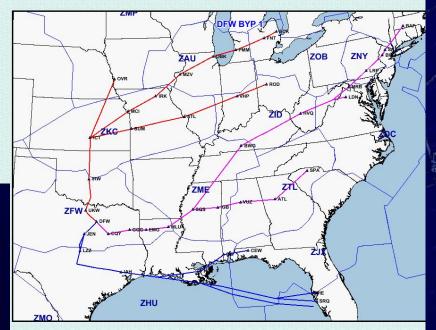
Playbook

DFW BYP 1

Impacted Area or Flow: DFW BYP STAR

Facilities Included: ZFW/ZME/ZID/ZDC/ZNY/ZBW/CZY/ZTL/ZHU/ZJX/ZMA/ZKC/ZAU/ZOB/ZMP

Instructions: REPOUTE ANY AIRBORNE TRAFFIC AND INTERNAL DEPARTURES DESTINED THE DFW TERMINAL AREA VIA THE FOLLOWING ROUTES. SUBSTITUTE OTHER DESTINATION IN PLACE OF DFW IF APPLICABLE



National Playbook

- Original concept: summer 1999
- First use: spring 2000
- Purpose: to enhance communication and promote a common situational awareness between the Command Center, FAA field facilities, and customer community

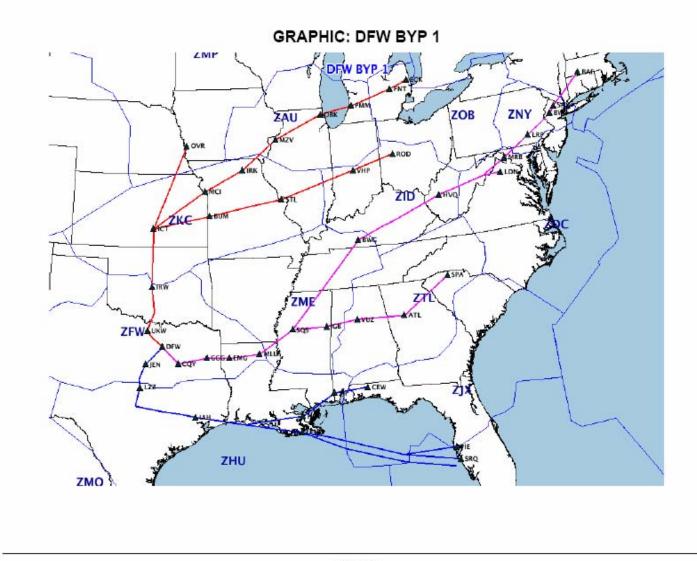


Structure: 140 "Plays" (pre-coordinated routes)

- 67 Airport Plays
- > 16 Airway Closure Plays
- 20 East-to-West Transcon Plays
- 12 Regional Route Plays
- 25 West-to-East Transcon Plays

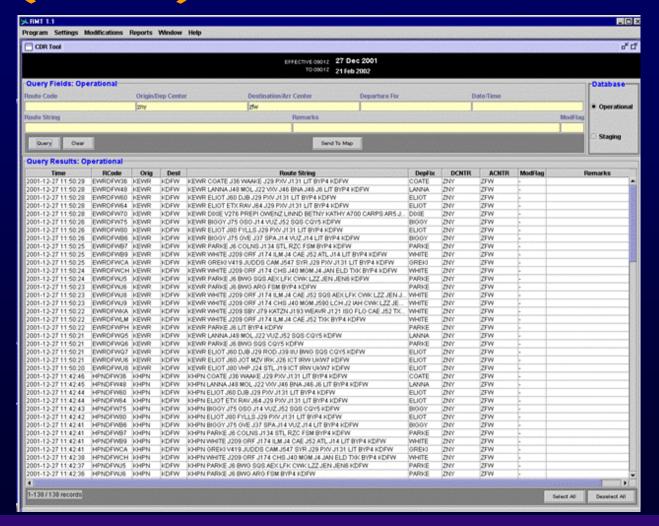


EXAMPLE: DFW ARRIVALS



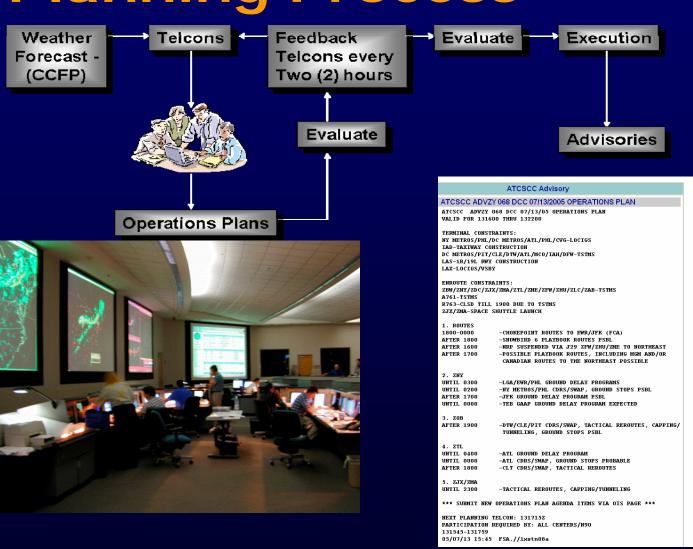
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Coded Departure Routes (CDRs)





Planning Process



International Operations and Collaboration

- ETMS Agreements
 - Canada
 - United Kingdom
 - Mexico
 - Chile
 - Colombia, COCESNA, Panama, Dominican Republic, Trinidad & Tobago
 - Future (Japan, Eurocontrol, Brazil)



ATCSCC Web Site

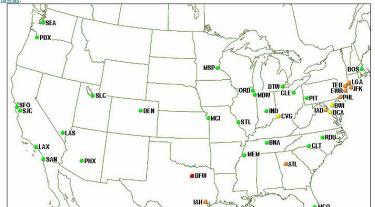
The Federal Aviation Administration

Air Traffic Control System Command Center

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Welcome to the ATCSCC Real-time Airport Status page. (Text-only version). If your airport of interest is not shown, you can zoom in to the Northwestern States, the North Central States, the Northeastern States, the Southwestern States, the South Central States, the Southeastern States, or Alaska and



The status information provided on this site indicates general airport conditions; it is not flightspecific. Check with your airline to determine if your flight is affected. Information on wait times at security checkpoints.

- minutes and/or arrivals are experiencing airborne holding delays of 16 to 45 minutes.
- Traffic destined to this airport is being delayed at its departure point. Check your departure airport to see if your flight may be affected.
- General Arrival/Departure delays are 15 minutes or less. Departures are experiencing taxi delays of 16 to 45
 Departures are experiencing taxi delays greater than 45 minutes and/or arrivals are experiencing
 - airborne holding delays greater than 45 minutes.
 - Closed airport

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Thank you!



